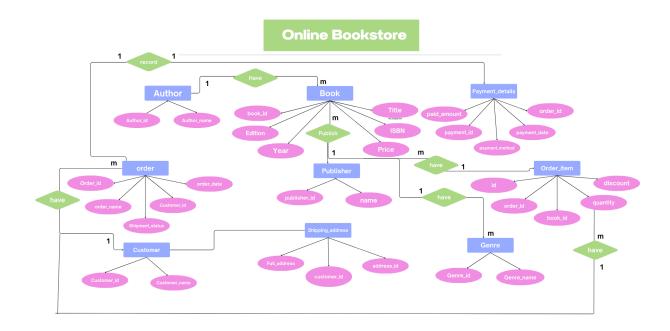
Project 3:Online Bookstore

Design an Entity-Relationship schema for an online book publishing and sales platform. The database should contain information about books with title, ISBN, edition, publication year, publisher, genres, and price. Authors have ID, name, biography, and are associated with multiple books.

Customers have customer ID, name, purchase history, shipping addresses, and wishlist items. Orders have order number, order date, customer placing the order, list of books ordered with quantity and per item discounts, payment details, and shipment status.

Publishers have names, contact details, and the books they publish. Books can be written by multiple authors and can belong to multiple genres. Customers can place multiple orders, have multiple shipping addresses, and maintain a wishlist of books.

Each edition of a book is published by exactly one publisher, and books can have multiple editions sold in different years. Orders can contain multiple books with different quantities and item-specific discounts. Assume scenarios such as co-authored books, special editions, and pre-order capabilities.



SQL TABLE CREATION STATEMENTS

-- Customer Table

CREATE TABLE Customer (

Customer id INT PRIMARY KEY,

Customer name VARCHAR(100)

```
);
-- Shipping Address Table
CREATE TABLE Shipping_address (
  address id INT PRIMARY KEY,
  customer id INT,
  Full_address TEXT,
  FOREIGN KEY (customer_id) REFERENCES Customer(Customer_id)
);
-- Author Table
CREATE TABLE Author (
  Author id INT PRIMARY KEY,
  Author_name VARCHAR(100)
);
-- Publisher Table
CREATE TABLE Publisher (
  publisher id INT PRIMARY KEY,
  name VARCHAR(100)
);
-- Book Table
CREATE TABLE Book (
  book id INT PRIMARY KEY,
  Title VARCHAR(200),
  Edition VARCHAR(50),
  Year INT,
  ISBN VARCHAR(20),
  Price DECIMAL(10,2),
  publisher id INT,
  FOREIGN KEY (publisher_id) REFERENCES Publisher(publisher_id)
);
```

```
-- Genre Table
CREATE TABLE Genre (
  Genre id INT PRIMARY KEY,
  Genre_name VARCHAR(50)
);
-- Order Table
CREATE TABLE 'Order' (
  Order id INT PRIMARY KEY,
  order name VARCHAR(100),
  order date DATE,
  Customer id INT,
  Shipment status VARCHAR(50),
  FOREIGN KEY (Customer_id) REFERENCES Customer(Customer_id)
);
-- Order Item Table
CREATE TABLE Order item (
  id INT PRIMARY KEY,
  order_id INT,
  book id INT,
  quantity INT,
  discount DECIMAL(5,2),
  FOREIGN KEY (order id) REFERENCES 'Order' (Order id),
  FOREIGN KEY (book id) REFERENCES Book(book id)
);
-- Payment Details Table
CREATE TABLE Payment details (
  payment id INT PRIMARY KEY,
  order id INT,
  paid amount DECIMAL(10,2),
  payment_date DATE,
  payment method VARCHAR(50),
  FOREIGN KEY (order id) REFERENCES 'Order' (Order id)
```

```
);
/* ======= Insert the values ======= */
INSERT INTO Customer (Customer_id, Customer_name) VALUES
(1, 'Aishwarya R'),
(2, 'Rithika V'),
(3, 'Narashima P');
INSERT INTO Shipping address (address id, customer id, Full address)
VALUES
(101, 1, '123 Park Street, Hyderabad'),
(102, 2, '45 MG Road, Bangalore'),
(103, 3, '8-2-293 Jubilee Hills, Hyderabad');
INSERT INTO Author (Author id, Author name) VALUES
(1, 'Chetan Bhagat'),
(2, 'J.K. Rowling'),
(3, 'George R.R. Martin');
INSERT INTO Publisher (publisher id, name) VALUES
(1, 'Penguin Random House'),
(2, 'Bloomsbury'),
(3, 'HarperCollins');
INSERT INTO Book (book id, Title, Edition, Year, ISBN, Price, publisher id)
VALUES
(1001, '2 States', '1st', 2009, '9788129135545', 299.00, 1),
(1002, 'Harry Potter and the Sorcerer's Stone', '2nd', 1997, '9780747532699',
499.00, 2),
(1003, 'A Game of Thrones', '1st', 1996, '9780553103540', 699.00, 3);
INSERT INTO Genre (Genre id, Genre name) VALUES
(10, 'Romance'),
(11, 'Fantasy'),
(12, 'Adventure');
INSERT INTO 'Order' (Order id, order name, order date, Customer id,
Shipment status) VALUES
```

```
(5001, 'Order_5001', '2025-06-12', 1, 'Shipped'), (5002, 'Order_5002', '2025-06-10', 2, 'Processing'), (5003, 'Order_5003', '2025-06-08', 3, 'Delivered');
```

INSERT INTO Order_item (id, order_id, book_id, quantity, discount) VALUES (1, 5001, 1001, 2, 10.00),

(2, 5001, 1002, 1, 0.00),

(3, 5002, 1003, 1, 5.00),

(4, 5003, 1002, 2, 15.00);

INSERT INTO Payment_details (payment_id, order_id, paid_amount, payment_date, payment_method) VALUES (9001, 5001, 897.00, '2025-06-12', 'Credit Card'), (9002, 5002, 664.00, '2025-06-10', 'UPI'), (9003, 5003, 848.00, '2025-06-08', 'Net Banking');

